OAH060- CRITICAL THINKING

Credit Hours: 3 Semester Hours
Pre-Requisite: None
Related TAG: Philosophy
General Course Description: This course of study stresses the understanding of critical thinking with an emphasis on argument and reasoning. It prepares students to think critically about a variety of topics in many different contexts.
A minimum of 70% of the Student Learning Outcomes, including essential outcomes marked with an asterisk (*), must be met.
Learning outcomes 1. Distinguish arguments from non-arguments. *
Learning outcomes 2. Identify the premises and conclusions of arguments. *
Learning outcome 3. Distinguish deductive and inductive reasoning. *
Learning outcome 4. Separately evaluate the acceptability of the premises and the reasoning of arguments. *
Learning outcome 5. Clarify and disambiguate claims and arguments**. ***
Learning outcome 6. Identify common informal fallacies. ****
Learning outcome 7. Analyze causal, statistical, or scientific reasoning.
Learning outcome 8. Analyze legal or moral reasoning.

OAH061- INTRODUCTION TO LOGIC

Credit Hours: 3 Semester Hours
Pre-Requisite: None
Related TAG: Philosophy
General Course Description: This course of study stresses the understanding of introductory logic with an emphasis on sentential logic. It introduces students to the academic study of logic and prepares them to create and evaluate logical arguments.
A minimum of 70% of the Student Learning Outcomes, including essential outcomes marked with an asterisk (*), must be met.
Learning outcomes 1. Students will symbolically formalize statements and arguments. *
Learning outcomes 2. Students will identify arguments and their premises and conclusions.
Learning outcome 3. Students will distinguish between deductive and inductive reasoning.
Learning outcome 4. Students will gain familiarity with and apply logical concepts including equivalency, contradiction, consistency, validity, and soundness.
Learning outcome 5. Students will use Venn diagrams to evaluate arguments in categorical logic.
Learning outcome 6. Students will use truth tables to evaluate statements and arguments in sentential/propositional logic. *
Learning outcome 7. Students will construct proofs in sentential/propositional logic. *
Learning outcome 8. Students will construct proofs in predicate logic.